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IN THE CLAIMS:

1. (Previously Presented) A method of automatically detecting fiber cabling errors in an optical network comprising:

detecting current fiber connectivity between optical nodes in the network; storing information regarding the current fiber link connectivity; detecting any cabling changes; and

determining the impact of the cabling changes on service through the network including impacts on cross-connects and lightpaths; and

displaying the impact of the cable changes on the service including the impacts on cross-connects and lightpaths.

- (Original) The method as defined in claim 1 wherein the step of determining impact on services supports the step of directing operator resolution of errors caused by the cabling changes.
- 3. (Original) The method as defined in claim 2 implemented by an element management system (EMS) within a node.
- (Original) The method as defined in claim 2 implemented within a network management system (NMS).
- (Original) The method as defined in claim 2 implemented with an operations support system (OSS).
- (Original) The method as defined in claim 2 implemented in a combination of EMS, NMS and OSS.
- 7. (Original) The method as defined in claim 1 wherein current fiber connectivity and any cabling changes are displayed on a graphical user interface (GUI).

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8. (Original) The method as defined in claim 7 wherein the GUI displays a correlation between optical nodes in the network and fiber connectivity.

(Original) The method as defined in claim 7 wherein the GUI displays crossconnection impacted by a cabling change.

10. (Original) The method as defined in claim 7 wherein the GUI displays lightpaths impacted by a cabling change.

11. (Original) The method as defined in claim 7 wherein any cabling change must be approved by an operator before initiation of the change.

12-19. (Canceled)

 (Previously presented) The method of claim 1 wherein impact determining step includes determining if lightpaths have been automatically rerouted off affected optical links

21-23. (Canceled)